IN THE CLAIMS:

Please amend the claims as follows. This listing of the claims will replace all prior versions, and listings, of claims in the application:

1 - 21 (Canceled)

22. (Currently amended) A method for controlling heating processes in a coffee machine, which is suitable for preparing coffee on the basis of coffee pads, wherein the coffee machine comprises a continuous flow heater having an adjustable heating power and a pump for conveying water through the continuous flow heater, the method comprising:

measuring a first temperature between the continuous flow heater and a brewing chamber;

measuring a second temperature between the pump and the continuous flow heater; and

controlling an evolution of steam and pressure in the continuous flow heater by influencing an amount of water conveyed by the pump in response to the first and second temperatures by performing a pulsed operation of the pump until a temperature of the water reaches a predefined temperature threshold.

23-26. (Canceled)

27. (Currently amended) The method according to claim 22, wherein the pump is switched on before a beginning of heating and is operated with a first cycle ratio between switch-on time and switch-off time, the first cycle ratio becoming larger with increasing temperature, and the first cycle ratio being above the [[a]] predefined temperature threshold.

(Canceled)

- 29. (Currently amended) An electronic control device for controlling a heating process in a coffee machine for preparing coffee using coffee pads, the coffee machine comprising a continuous flow heater having an adjustable heating power and a pump for conveying water along a conveying section through the continuous flow heater and a plurality of temperature sensor sensors, a first temperature sensor disposed between the continuous flow heater and a brewing chamber, and a second temperature sensor disposed between the pump and the continuous flow heater, wherein the electronic control device comprises means for influencing an amount of water conveyed by the pump in response to temperatures measured by the first and second temperature sensors by performing a pulsed operation of the pump until a temperature of the water reaches a predefined temperature threshold, thereby controlling an evolution of steam and pressure in the continuous flow heater.
- (Previously Presented) The electronic control device according to claim
 wherein the means for influencing the amount of water conveyed includes clocked operation of the pump.

(Canceled)

- 32. (Previously Presented) The electronic control device according to claim
 29, wherein the means for influencing the amount of water conveyed includes a restrictor.
- (Previously Presented) The electronic control device according to claim
 wherein the restrictor includes a slider disposed in the conveying section.

34. (Canceled)

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35. (Previously presented) The electronic control device according to claim 29, wherein the continuous flow heater includes a plurality of heaters and the means for influencing the heating power comprises a controller for switching on different numbers of the plurality of heaters.

36-41. (Canceled)

- 42. (Previously presented) The electronic control device according to claim 29, wherein the electronic control device comprises a differential element for determining a temperature difference between the first and second temperature sensors.
- 43. (Previously presented) The method according to claim 22, further comprising:

influencing the adjustable heating power in response to the first and second temperatures.